



# BTL-4000 Ultrasound

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**ULTRASOUND****1 ADNEXITIS - POST-INFLAMMATORY CHANGES**

Program	U-0048 adnexitis - post-inflammatory changes
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 5. treatment: 10 minutes 6. treatment: 12 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm <sup>2</sup> 3. - 4. treatment: 0.8 W/cm <sup>2</sup> 5. - 15. treatment: 1.0 W/cm <sup>2</sup>
Effect	antiphlogistic, hyperaemic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (244)

**2 ADNEXITIS - SUBAQUALIS**

Program	U-0047 adnexitis - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm <sup>2</sup> 3. - 4. treatment: 0.6 W/cm <sup>2</sup> 5. - 15. treatment: 0.8 W/cm <sup>2</sup>
Effect	antiphlogistic, analgesic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (243)

**3 ARTHRITIS RHEUMATOIDES**

Program	U-0001 arthritis rheumatoides
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	6 - 10
Intensity	0.8 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	analgesic, antiedematous
Note	Semistatic application. (199)

**4 ARTHRITIS RHEUMATOIDES - SUBAQUALIS**

Program	U-0002 arthritis rheumatoides - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	6 - 10
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	analgesic, antiedematous, myorelaxation
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 36 °C (200)

**5 ARTHROSIS CHRONICA**

Program	U-0003 arthrosis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 - 8 minutes, step 0.5 minute
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.2 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Apply to the edema. The patient must not feel pain during application. (201)

**6 ARTHROSIS CHRONICA INACTIVA**

Program	U-0004 arthrosis chronica inactiva
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	10 minutes
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	analgesic, antiedematous
Note	Dynamic application. Treat the whole affected joint. For deeper located joints. (202)

**7 ARTHROSIS CHRONICA INACTIVA - SUPERFICIAL**

Program	U-0059 arthrosis chronica inactiva - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	10 minutes
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	analgesic, antiedematous
Note	Dynamic application. Treat the whole affected joint. For joints located close to the surface. (520)

**8 ARTHROSIS SUBCHRONICA**

Program	U-0005 arthrosis subchronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	5x per week
Number of treatments	5 - 6
Intensity	0.8 - 1.5 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to the edema. The patient must not feel pain during application. (203)

**9 BURSITIS ACUTA**

Program	U-0006 bursitis acuta
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	1 - 3 minute, step 0.5 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm <sup>2</sup>
Effect	antiedematous, antiphlogistic
Note	Semistatic application. Apply to the edema. Pain must not worsen during application. For deeper located bursae. (204)

**10 BURSITIS ACUTA - SUPERFICIAL**

Program	U-0060
	bursitis acuta - superficial
Therapy parameters	carrier frequency: 3 MHz
	duty factor: 1:8 (12.5%)
	modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	1 - 3 minutes, step 0.5 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm <sup>2</sup>
Effect	antiedematous, antiphlogistic
Note	Semistatic application.
	Apply to the edema.
	Pain must not worsen during application.
	For superficial bursae.
	(521)

**11 BURSITIS CHRONICA**

Program	U-0007
	bursitis chronica
Therapy parameters	carrier frequency: 1 MHz
	duty factor: 1:1 (100%)
	modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 - 8 minutes, step 1 minute
Frequency of treatments	3x per week
Number of treatments	6
Intensity	1.0 W/cm <sup>2</sup>
Effect	antiedematous, antiphlogistic
Note	Semistatic application.
	If pain appears or worsens, reduce intensity.
	For deeper located bursae.
	(205)

**12 BURSITIS CHRONICA - SUPERFICIAL**

Program	U-0061
	bursitis chronica - superficial
Therapy parameters	carrier frequency: 3 MHz
	duty factor: 1:1 (100%)
	modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 - 8 minutes, step 1 minute
Frequency of treatments	3x per week
Number of treatments	6
Intensity	1.0 W/cm <sup>2</sup>
Effect	antiedematous, antiphlogistic
Note	Semistatic application.
	If pain appears or worsens, reduce intensity.
	For superficial bursae.
	(522)

**13 BURSITIS SUBACUTA**

Program	U-0008 bursitis subacuta
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	3 - 6 minutes, step 1 minute
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm <sup>2</sup>
Effect	antiedematous, antiphlogistic
Note	Semistatic application. Apply to the edema. Pain must not worsen during application. (206)

**14 CICATRIX ACUTA**

Program	U-0009 cicatrix acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	2 - 5
Intensity	0.5 - 1.0 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	analgesic, hyperaemic
Note	Semistatic application. Follow the principles of asepsis. (207)

**15 CICATRIX CHELOIDUM**

Program	U-0010 cicatrix cheloidum
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	3 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	3 - 6 (or more in case of obvious effect)
Intensity	1.5 - 2.5 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	hyperaemic
Note	Semistatic application. It is suitable to support the therapy by manual modalities (pressure massage, fascial techniques, etc.). (208)



**16 CICATRIX SUBACUTA**

Program	U-0011 cicatrix subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	0.5 - 1.0 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	hyperaemic
Note	Semistatic application. Follow the principles of asepsis. (209)

**17 CRAUROSIS VULVAE**

Program	U-0049 craurosis vulvae
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	1 cm <sup>2</sup>
Length of application	10 minutes
Frequency of treatments	daily
Number of treatments	2 sets, 10 treatments each; interval between the sets 4 - 6 weeks
Intensity	0.4 - 0.8 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup> beginning with the 2. treatment
Effect	analgesic, hyperaemic
Note	Dynamic application. Contact medium: 1% hydrocortizone ointment. (245)

**18 DECUBITUS**

Program	U-0012 decubitus
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	10 (or even more if needed)
Intensity	0.8 W/cm <sup>2</sup>
Effect	antiedematous, analgesic, hyperaemic
Note	Semistatic application. Apply only to the edges of the decubitus. If pain appears or worsens, reduce intensity. (210)

**19 DISTENSIO MUSCULARIS ACUTA**

Program	U-0062 distensio muscularis acuta
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	5x per week
Number of treatments	5 - 7
Intensity	0.8 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, hyperaemic, analgesic
Note	Semistatic application. For deeper located muscles. (523)

**20 DISTENSIO MUSCULARIS ACUTA - SUPERFICIAL**

Program	U-0013 distensio muscularis acuta - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	5x per week
Number of treatments	5 - 7
Intensity	0.8 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, hyperaemic, analgesic
Note	Semistatic application. For superficial muscles. (211)

**21 DISTORSIO ACUTA**

Program	U-0015 distorsio acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	3 - 5 minutes, step 1 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	0.8 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to the edema. (212)

**22 DISTORSIO ACUTA - SUBAQUALIS**

Program	U-0016 distorsio acuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 - 7 minutes, step 1 minute
Frequency of treatments	5x per week (daily)
Number of treatments	3
Intensity	2.0 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the joint: 10 – 12 cm. Water temperature: 20 °C (213)

**23 DISTORSIO CHRONICA**

Program	U-0017 distorsio chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3x per week
Number of treatments	6 - 9
Intensity	1.0 - 1.5 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to chronic edema. (214)

**24 DISTORSIO SUBACUTA**

Program	U-0018 distorsio subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 - 8 minutes, step 1 minute
Frequency of treatments	3x per week
Number of treatments	3 - 5
Intensity	1.0 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Semistatic application. Apply to the edema. (215)

**25 ENDOMETRIOSIS WITH ADHESIVE PROCESSES OF LESSER PELVIS**

Program	U-0050
Therapy parameters	endometriosis with adhesive processes of lesser pelvis carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm <sup>2</sup> 3. - 4. treatment: 0.6 W/cm <sup>2</sup> 5. - 15. treatment: 0.8 W/cm <sup>2</sup>
Effect	analgesic, antiedematous, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact media: gels - analgesics, antiphlogistics - such as diclofenac. Apply only in case of ovulation blockage or after operation. Apply only for endometriosis accompanied by adhesive processes of lesser pelvis (not for mere endometriosis). (246)

**26 ENDOMETRITIS - POST-INFLAMMATORY CHANGES**

Program	U-0056
Therapy parameters	endometritis - post-inflammatory changes carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 5. treatment: 10 minutes 6. treatment: 12 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm <sup>2</sup> 3. - 4. treatment: 0.8 W/cm <sup>2</sup> 5. - 15. treatment: 1.0 W/cm <sup>2</sup>
Effect	antiphlogistic, hyperaemic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (252)

**27 ENDOMETRITIS - SUBACUTE**

Program	U-0055 endometritis - subacute
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm <sup>2</sup> 3. - 4. treatment: 0.6 W/cm <sup>2</sup> 5. - 15. treatment: 0.8 W/cm <sup>2</sup>
Effect	antiphlogistic, analgesic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (251)

**28 EPICONDYLITIS ACUTA**

Program	U-0019 epicondylitis acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:8 (12.5%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	3 - 5 minutes, step 0.5 minute
Frequency of treatments	5x per week
Number of treatments	3 - 5
Intensity	1.2 W/cm <sup>2</sup>
Effect	myorelaxation, analgesic
Note	Semistatic application. Apply to the muscle group which is anchored to the affected epicondyle. Direct ultrasound application to the epicondyle is contraindicated. (216)

**29 EPICONDYLITIS CHRONICA**

Program	U-0020 epicondylitis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3x per week
Number of treatments	5 - 15
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	myorelaxation, analgesic
Note	Semistatic application. The application must be supplemented by post-isometric relaxation of the corresponding muscular group. Apply to fibres with inner incoordination or to trigger points which have been diagnosed in advance. Direct ultrasound application to the epicondyle is contraindicated. (217)

**3 0 E P I C O N D Y L I T I S S U B A C U T A**

Program	U-0021 epicondylitis subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	3 - 5 minutes, step 1 minute
Frequency of treatments	3 - 5x per week
Number of treatments	6
Intensity	1.5 W/cm <sup>2</sup>
Effect	myorelaxation, analgesic
Note	Semistatic application. Apply to fibres with inner incoordination or to trigger points which have been diagnosed in advance. Direct ultrasound application to the epicondyle is contraindicated. (218)

**3 1 H A E M A T O M A C H R O N I C A**

Program	U-0022 haematoma chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3x per week
Number of treatments	3 - 6
Intensity	1.0 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Dynamic application. (219)

**3 2 H A E M A T O M A S U B A C U T A**

Program	U-0023 haematoma subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Dynamic application. (220)

**3 3 H A E M A T O M A S U B C H R O N I C A**

Program	U-0024 haematoma subchronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Dynamic application. (221)

**3 4 M Y A L G I A**

Program	U-0025 myalgia
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	myorelaxation, hyperaemic, analgesic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For deeper located muscles. (222)

**3 5 M Y A L G I A - S U P E R F I C I A L**

Program	U-0063 myalgia - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	myorelaxation, hyperaemic, analgesic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For superficial muscles. (524)

**3 6 M Y O S P A S M**

Program	U-0027 myospasm
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	myorelaxation, hyperaemic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For deeper located muscles. (223)

**3 7 M Y O S P A S M - S U P E R F I C I A L**

Program	U-0064 myospasm - superficial
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per day
Number of treatments	5 - 8
Intensity	1.5 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	myorelaxation, hyperaemic
Note	Dynamic application. Ultrasound application should be immediately followed by physiotherapy (traction, MET, PIR and the like), otherwise the effect would only be temporary. For superficial muscles. (525)

**3 8 O E D E M A C H R O N I C A**

Program	U-0028 oedema chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3x per week
Number of treatments	3 - 6
Intensity	1.0 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Dynamic application. (224)



**39 OEDEMA SUBACUTA**

Program	U-0029 oedema subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Dynamic application. (225)

**40 OEDEMA SUBCHRONICA**

Program	U-0030 oedema subchronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.2 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiedematous, analgesic
Note	Dynamic application. (226)

**41 PARAMETRITIS - POST-INFLAMMATORY CHANGES**

Program	U-0058 parametritis - post-inflammatory changes
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 5. treatment: 10 minutes 6. treatment: 12 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm <sup>2</sup> 3. - 4. treatment: 0.8 W/cm <sup>2</sup> 5. - 15. treatment: 1.0 W/cm <sup>2</sup>
Effect	antiphlogistic, hyperaemic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. (254)

**42 PARAMETRITIS - SUBACUTE**

Program	U-0057
Therapy parameters	parametritis - subacute carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.4 W/cm <sup>2</sup> 3. - 4. treatment: 0.6 W/cm <sup>2</sup> 5. - 15. treatment: 0.8 W/cm <sup>2</sup>
Effect	antiphlogistic, analgesic, resorptive
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment. For parametritis, laser therapy is more suitable. (253)

**43 PELVALGIA, SACRALGIA (ADHESIVE PROCESSES OF LESSER PELVIS)**

Program	U-0051
Therapy parameters	pelvalgia, sacralgia (adhesive processes of lesser pelvis) carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 15. treatment: 10 minutes
Frequency of treatments	daily
Number of treatments	10 - 15
Intensity	1. - 2. treatment: 0.4 W/cm <sup>2</sup> 3. - 4. treatment: 0.6 W/cm <sup>2</sup> 5. - 15. treatment: 0.8 W/cm <sup>2</sup>
Effect	analgesic, hyperaemic
Note	Dynamic application to the adnexal area and above the symphysis, every other treatment to the paravertebral area L2-L5 bilaterally. Contact media: gels - analgesics, antiphlogistics - such as diclofenac. (247)

**44 POST-CHILDBIRTH SUTURE OF PERINEUM, INCISION**

Program	U-0052
Therapy parameters	post-childbirth suture of perineum, incision carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 50 Hz
Head	1 cm <sup>2</sup>
Length of application	6 - 10 minutes
Frequency of treatments	1. day 2 treatments, then 1 treatment per day
Number of treatments	6 - 10
Intensity	1. - 3. treatment: 0.2 W/cm <sup>2</sup> 4. - 10. treatment: 0.4 W/cm <sup>2</sup>
Effect	hyperaemic, analgesic, resorptive
Note	Dynamic application. Contact medium: 1% hydrocortizone ointment or e.g. antibiotics. Follow the principles of asepsis. (248)

**45 PRE ENDERMOLOGY, LIPID AGITATION**

Program	U-0113 pre endermology, lipid agitation
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	10 min. (560)

**46 PRE SURG. LIPID DISPER., ABDOMEN**

Program	U-0100 pre surg. lipid disper., abdomen
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	5 min. (551)

**47 PRE SURG. LIPID DISPER., LEFT BUTTOCK**

Program	U-0104 pre surg. lipid disper., left buttock
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	4 min. (576)

**48 PRE SURG. LIPID DISPER., LEFT FLANK**

Program	U-0102 pre surg. lipid disper., left flank
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	4 min. (575)

**49 PRE SURG. LIPID DISPER., LEFT INNER THIGH**

Program	U-0108 pre surg. lipid disper., left inner thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	3 min. (578)

**50 PRE SURG. LIPID DISPER., LEFT OUTER THIGH**

Program	U-0106 pre surg. lipid disper., left outer thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	5 min. (577)

**51 PRE SURG. LIPID DISPER., LEFT UPPER ARM**

Program	U-0111 pre surg. lipid disper., left upper arm
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	4 min. (579)

**52 PRE SURG. LIPID DISPER., RIGHT BUTTOCK**

Program	U-0103 pre surg. lipid disper., right buttock
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	4 min. (553)

**53 PRE SURG. LIPID DISPER., RIGHT FLANK**

Program	U-0101 pre surg. lipid disper., right flank
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	4 min. (552)

**54 PRE SURG. LIPID DISPER., RIGHT INNER THIGH**

Program	U-0107 pre surg. lipid disper., right inner thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	3 min. (555)

**55 PRE SURG. LIPID DISPER., RIGHT OUTER THIGH**

Program	U-0105 pre surg. lipid disper., right outer thigh
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	5 min. (554)

**56 PRE SURG. LIPID DISPER., RIGHT UPPER ARM**

Program	U-0110 pre surg. lipid disper., right upper arm
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	4 min. (557)

**57 PRE SURG. LIPID DISPER., UNDER CHIN**

Program	U-0109 pre surg. lipid disper., under chin
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 0 Hz
Head	4 cm <sup>2</sup>
Length of application	4 min. (556)

**58 PRURITUS VULVAE**

Program	U-0053 pruritus vulvae
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	1 cm <sup>2</sup>
Length of application	10 minutes
Frequency of treatments	daily
Number of treatments	2 sets, 10 treatments each; interval between the sets 4 - 6 weeks
Intensity	0.4 - 0.8 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup> beginning with the 2. treatment
Effect	hyperaemic, analgesic
Note	Dynamic application. Contact medium: 1% hydrocortizone ointment. Can be combined with laser therapy. (249)

**59 SPONDYLARTHROSIS ANCYLOPOETICA - M.BECHTEREVI**

Program	U-0031 spondylarthrosis ancylopoetica - m.bechterevi
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	15 minutes
Frequency of treatments	3x per week
Number of treatments	9 - 12
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	myorelaxation, analgesic
Note	Dynamic application. Apply to the paravertebral foraminae of the spine area where pain or stiffness is maximum. Ultrasound application should be immediately followed by physiotherapy (physical exercise), otherwise the effect would only be temporary. For superficial muscles use the carrier frequency 3 MHz. Ultrasound application to the vertebral spines is contraindicated. (227)

**60 SY. ALGODYSTROPHICUS - SY.SUDECK**

Program	U-0032 sy. algodystrophicus - sy.sudeck
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	15 minutes
Frequency of treatments	5x per week for clinically manifested algodystrophy, up to 2x per week for incipient algodystrophy
Number of treatments	10
Intensity	1.0 W/cm <sup>2</sup>
Effect	myorelaxation, analgesic
Note	Dynamic application. For treatment of upper limb apply ultrasound homolaterally to C5-Th1 area (segmental application), for treatment of lower limb apply to the L2-L5 area. Direct (local) ultrasound application to the affected area is absolutely contraindicated. For segmental application it is necessary to avoid the vertebral spines. (228)

**61 TENDINITIS ACUTA**

Program	U-0033 tendinitis acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:16 (6.25%) modulation frequency: 50 Hz
Head	1 cm <sup>2</sup>
Length of application	3 minutes
Frequency of treatments	5x per week
Number of treatments	2 - 5
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	antiphlogistic, analgesic
Note	Semistatic application. Immobilisation is an integral part of treatment. (229)

**6 2 TENDINITIS ACUTA - SUBAQUALIS**

Program	U-0034 tendinitis acuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:8 (12.5%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	5x per week
Number of treatments	2 - 5
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 18 - 25 °C Immobilisation is an integral part of treatment. (230)

**6 3 TENDINITIS CHRONICA**

Program	U-0035 tendinitis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	5 - 10
Intensity	1.0 - 1.5 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. An integral part of this therapy is physiotherapy (physical exercise). (231)

**6 4 TENDINITIS SUBACUTA**

Program	U-0036 tendinitis subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 2.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. (232)

**65 TENDINITIS SUBACUTA - SUBAQUALIS**

Program	U-0037
	tendinitis subacuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.5 - 2.5 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. (233)

**66 TENDOVAGINITIS ACUTA**

Program	U-0038
	tendovaginitis acuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:16 (6.25%) modulation frequency: 50 Hz
Head	1 cm <sup>2</sup>
Length of application	2 minutes
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	2 - 5
Intensity	2.0 - 2.5 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. (234)

**67 TENDOVAGINITIS ACUTA - SUBAQUALIS**

Program	U-0039
	tendovaginitis acuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	3 - 5
Intensity	1.5 - 2.5 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 18 - 25 °C (235)



**68 TENDOVAGINITIS CHRONICA**

Program	U-0040 tendovaginitis chronica
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:1 (100%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	2 - 3x per week
Number of treatments	5 - 15
Intensity	1.5 - 2.5 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. Therapy must be followed by appropriate physiotherapy (physical exercise). (236)

**69 TENDOVAGINITIS SUBACUTA**

Program	U-0041 tendovaginitis subacuta
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	5 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	1.0 - 1.5 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Semistatic application. (237)

**70 TENDOVAGINITIS SUBACUTA - SUBAQUALIS**

Program	U-0042 tendovaginitis subacuta - subaqualis
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	4 minutes
Frequency of treatments	3 - 5x per week
Number of treatments	3 - 5
Intensity	2.0 - 2.5 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	antiphlogistic, antiedematous, analgesic
Note	Subaqual application. Distance of the ultrasound head from the affected area: 10 – 12 cm. Water temperature: 18 - 25 °C (238)

**71 TRIGGER POINTS - DEEP**

Program	U-0043
Therapy parameters	trigger points - deep carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	2 - 3 minutes each trigger point
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	3 - 5
Intensity	2.0 - 3.0 W/cm <sup>2</sup> , step 0.2 W/cm <sup>2</sup>
Effect	myorelaxation, analgesic
Note	Semistatic application. Ultrasound application should be immediately followed by suitable myoskeletal technique (PIR or selfPIR). It is best to apply ultrasound to those trigger points which radiate typical pain when detected by palpation or by combined therapy. (239)

**72 TRIGGER POINTS - SUPERFICIAL**

Program	U-0044
Therapy parameters	trigger points - superficial carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	2 minutes each trigger point
Frequency of treatments	from 2x per day to 5x per week
Number of treatments	3 - 5
Intensity	0.5 - 1.0 W/cm <sup>2</sup> , step 0.1 W/cm <sup>2</sup>
Effect	myorelaxation, analgesic
Note	Semistatic application. Trigger points are very painful points that are often located in the affected area, but can be also outside it. Ultrasound application should be immediately followed by suitable myoskeletal technique (PIR or selfPIR). (240)

**73 TUBAL STERILITY**

Program	U-0054
Therapy parameters	tubal sterility carrier frequency: 1 MHz duty factor: 1:4 (25%) modulation frequency: 50 Hz
Head	4 cm <sup>2</sup>
Length of application	1. treatment: 6 minutes 2. - 3. treatment: 8 minutes 4. - 6. treatment: 10 minutes 7. - 15. treatment: 15 minutes
Frequency of treatments	daily
Number of treatments	15
Intensity	1. - 2. treatment: 0.6 W/cm <sup>2</sup> 3. - 4. treatment: 0.8 W/cm <sup>2</sup> 5. - 15. treatment: 1.0 W/cm <sup>2</sup>
Effect	hyperaemic
Note	Dynamic application to the adnexal area and above the symphysis. Contact medium: 1% hydrocortizone ointment or gels - analgesic, antiphlogistic - such as diclofenac. (250)

**74 ULCUS CRURIS**

Program	U-0045 ulcus cruris
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:4 (25%) modulation frequency: 100 Hz
Head	1 or 4 cm <sup>2</sup> , by the size of the ulcer
Length of application	4 - 7 minutes, step 0.5 minute
Frequency of treatments	daily (5x per week)
Number of treatments	5 - 10
Intensity	0.8 W/cm <sup>2</sup>
Effect	hyperaemic, analgesic
Note	Dynamic application. Apply only to the edges of the ulcer. If pain worsens during application, reduce the dosage. (241)

**75 ULTRASOUND PART OF COMBINED THERAPY 1**

Program	U-1006 ultrasound part of combined therapy 1
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	1 min.
Frequency of treatments	daily
Number of treatments	3
Intensity	0.4 W/cm <sup>2</sup>
Effect	myorelaxation
Note	Semistatic application. This is the ultrasound part of the therapy by 2 single BTL devices (electro, ultrasound) for current E-5814. (532)

**76 ULTRASOUND PART OF COMBINED THERAPY 2**

Program	U-1007 ultrasound part of combined therapy 2
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	1 - 2 min.
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	0.5 W/cm <sup>2</sup>
Effect	myorelaxation
Note	Semistatic application. This is the ultrasound part of the therapy by 2 single BTL devices (electro, ultrasound) for current E-5813. (533)

**77 ULTRASOUND PART OF COMBINED THERAPY 3**

Program	U-1008 ultrasound part of combined therapy 3
Therapy parameters	carrier frequency: 1 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	1 cm <sup>2</sup>
Length of application	1 - 2 min.
Frequency of treatments	daily
Number of treatments	1 - 4
Intensity	0.5 W/cm <sup>2</sup>
Effect	myorelaxation
Note	Semistatic application. This is the ultrasound part of the therapy by 2 single BTL devices (electro, ultrasound) for currents E-5814, E-2770. (534)

**78 VASONEUROSIS UNIVERSALIS - M. RAYNAUD**

Program	U-0046 vasoneurosis universalis - m. raynaud
Therapy parameters	carrier frequency: 3 MHz duty factor: 1:2 (50%) modulation frequency: 100 Hz
Head	4 cm <sup>2</sup>
Length of application	15 minutes
Frequency of treatments	first week 3x, then 2x per week
Number of treatments	5 - 15
Intensity	1.0 W/cm <sup>2</sup>
Effect	hyperaemic, analgesic
Note	Segmental application. For treatment of upper limbs apply homolaterally (or bilaterally) to the C5-Th1 area, for treatment of lower limbs apply to the L3-L5 area. (242)